Best Auxiliary Contactor Models and Their Industrial Applications

An auxiliary contactor is a critical component in modern electrical control systems, playing a key role in enabling safe, reliable, and efficient automation across industries. While power contactors handle heavy electrical loads, auxiliary contactors manage the essential control logic that ensures machines operate in the correct sequence, provide real-time status feedback, and maintain safety interlocks. Their ability to support signalling, monitoring, and system coordination makes them indispensable in industrial automation, manufacturing lines, and infrastructure control systems.

With a wide range of configurations and models available from leading manufacturers, selecting the right auxiliary contactor directly impacts system performance, operational safety, and long-term reliability. In this blog, we explore the best auxiliary contactor models and their industrial applications, helping engineers, designers, and procurement teams make informed and confident selection decisions for various control system requirements.

An auxiliary contactor is a low-power electromechanical switching device used alongside a main power contactor in electrical control systems. Unlike main contactors that handle high-current loads, auxiliary contactors are designed to manage control signals rather than power circuits. They function as the control interface of the system, enabling logic operations, feedback signalling, indicator control, interlocking, and safety shutdown functions in industrial applications.

What Is an Auxiliary Contactor?

An auxiliary contactor is a control device designed to provide additional switching contacts within an electrical control circuit. These contacts are commonly used for signalling, interlocking, feedback indication, and sequence control applications.

Unlike power contactors that directly switch motors and heavy loads, auxiliary contactors manage control signals that help automate industrial processes more efficiently.

Many engineers prefer an **auxiliary contactor no nc** configuration when applications require simultaneous normally open and normally closed contact operations for interlocking and status indication.

Best Auxiliary Contactor Series for Industrial and Commercial Applications

Siemens Auxiliary Contactors: Precision Contact Performance for Complex Control Logic.

Siemens auxiliary contactors are engineered for accurate and dependable contact switching, making them highly effective in interlocking, signalling, and automation circuits where precision is essential.

Model: Siemens Sirius 3RH2 Contactor Relay (Auxiliary Contactor) Screw Terminal 10 A, 3 NO + 1 NC, 230 V AC, 50/60 Hz, Size S00| 3RH2131-1AP00

Key Specifications:

Brand: Siemens

Model: 3RH - Siemens

Sub Family: 3RH2

Ampere/Current Rating: 10 A

Auxiliary Contact: 3 NO + 1 NC

Coil Voltage: 230V AC

Schneider Electric Auxiliary Contactors: Flexible Contact Configurations for Modern Automation Systems.

Schneider Electric auxiliary contactors offer a wide range of NO and NC contact combinations, allowing engineers to design versatile control circuits without additional components.

Model: Schneider Electric TeSys CA2K Control Relay 10 A, 3 NO + 1 NC, 110 V AC|CA2KN31F7

Key Specifications:

Brand: Schneider Electric

Model: TeSys - Schneider Electric

Sub Family: TeSys K

Ampere/Current Rating: 10 A

Auxiliary Contact: 3 NO + 1 NC

Coil Voltage: 110V AC

Eaton Auxiliary Contactors: Space-Saving Design with Reliable Auxiliary Control.

Eaton auxiliary contactors combine compact dimensions with dependable switching performance, making them ideal for applications where panel space is limited.

Model: Eaton DILA Control Relay (Auxiliary Contactor) 4 A, 4 NO, 24 V AC|DILA-40-24

Key Specifications:

Brand: Eaton

Model: DILA - Eaton

Sub Family: DILA

Ampere/Current Rating: 4 A

Auxiliary Contact: 4 NO

Coil Voltage: 24V AC

C&S Electric Auxiliary Contactors: Practical Auxiliary Control Solutions for Everyday Industrial Applications.

C&S Electric auxiliary contactors provide dependable control circuit performance while offering a cost-effective solution for OEMs, panel builders, and industrial users.

Model: C&S Electric Control Relay 10 A, 2 NO + 2 NC, 24 V AC | TCA2-M22B

Key Specifications:

Brand: C&S Electric

Model: C&S Electric

Ampere/Current Rating: 10 A

Auxiliary Contact: 2 NO + 2 NC

Coil Voltage: 24V AC

ABB Auxiliary Contactors: Reliable Auxiliary Switching with Wide Voltage Tolerance.

ABB auxiliary contactors are designed to deliver consistent switching performance even in applications exposed to voltage variations. Their advanced coil technology and robust contact mechanisms make them ideal for critical control and signalling circuits**.**

Model: ABB NFZ Series Auxiliary Contactor 6 A, 4 NO, 100-250 V AC/DC|1SBH136001R2340

Key Specifications:

Brand: ABB

Model: NFZ Series – ABB

Ampere/Current Rating: 6 A

Auxiliary Contact: 4 NO

Coil Voltage: 100-250V AC/DC

Comparison of Popular Auxiliary Contactor Models

Brand	**Popular Series**	**Current Rating**
Siemens	3RH1, 3RH2, 3TH	4–16 A
Schneider Electric	TeSys, EasyPact TVS	4–16 A
ABB	N, NF, NFZ, NX Series	4–16 A
Eaton	DILA	4–16 A

Brand	Popular Series	Current Rating
Lauritz Knudsen	MO, MX0	4–16 A
C&S Electric	Auxiliary Contactor Range	4–16 A

Industrial Applications of Auxiliary Contactors

Auxiliary contactors serve as the backbone of many control functions across industries.

Motor Control Panels: control relay provide reliable operational feedback and control sequencing, helping to ensure safe and efficient motor starter operation.

Safety Interlocking: They prevent conflicting operations from occurring simultaneously, enhancing equipment protection and operational safety.

System Feedback & Signalling: contactor relay transmit status signals for machine monitoring, enabling indication, alarm, and control system integration.

Automated Production Lines: They coordinate and synchronize multiple machines and processes, supporting smooth and continuous production workflows.

Emergency Stop Circuits: When integrated with safety systems, they facilitate rapid de-energization of control circuits to help ensure safe machinery shutdown during emergency conditions.

How to Select the Right Auxiliary Contactor

- **Brand & Product Series:** Choose an auxiliary contactor from a compatible brand and series, including ABB, Siemens, Schneider Electric, Eaton, C&S Electric, and Lauritz Knudsen (L&T), to ensure reliable integration with existing control systems.
- **Current Rating:** Select the appropriate current rating from 4 A, 6 A, 10 A, or 16 A based on the switching requirements of the control circuit.
- **Auxiliary Contact Configuration:** Determine the required contact arrangement, with options ranging from standard NO and NC combinations to high-contact-count configurations for signalling, monitoring, and interlocking applications.

- **Coil Voltage:** Ensure the coil voltage matches the control supply voltage. Options are available in AC, DC, and universal AC/DC variants, ranging from 12V DC to 500V AC/DC.

- **Control & Interlocking Requirements:** Evaluate the number of feedback, indication, and safety interlocking points required within the system to select the most suitable contact configuration for the application.

- This version reads more professionally and aligns well with industrial product catalogues and technical datasheets.

While comparing products, many buyers review to understand available options and identify the best value for their application.

Similarly, evaluating the overall **auxiliary contactor price** alongside technical specifications ensures that purchasing decisions are based on performance rather than cost alone.

Conclusion

Every reliable industrial control system depends on components that can perform consistently day after day, and auxiliary contactors are no exception. Although they may seem like small components, their role in signalling, interlocking, feedback, and control is critical to the smooth and safe operation of electrical systems. From motor control panels and automated machinery to manufacturing plants and infrastructure projects, the right auxiliary contactor helps improve system reliability, reduce unexpected downtime, and support efficient operations.

Choosing a trusted auxiliary contactor from leading brands such as Siemens, Schneider Electric, ABB, Eaton, Lauritz Knudsen (L&T), and C&S Electric gives businesses the confidence that their control systems will perform when it matters most. More than just a product, a quality auxiliary contactor is an investment in safety, productivity, and long-term performance. For those looking for genuine products, trusted brands, competitive pricing, and expert support, **Eleczo** provides a reliable platform to find the right auxiliary contactor solution for every industrial requirement, helping businesses build more dependable and efficient electrical systems.